(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report /220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 03/27607	03/09/2003	03/09/2002
Applicant		
GEORGETOWN UNIVERSITY		
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Au ansmitted to the International Bureau.	uthority and is transmitted to the applicant
This International Search Report consists  It is also accompanied by	of a total of <u>5</u> sheets. a copy of each prior art document cited in th	is report.
Basis of the report		
	international search was carried out on the bless otherwise indicated under this item.	easis of the international application in the
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation o	f the international application furnished to this
b. With regard to any nucleotide ar was carried out on the basis of th		international application, the international search
i —	onal application in written form.	
filed together with the inte	ernational application in computer readable fo	orm.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form.	
	bsequently furnished written sequence listing as filed has been furnished.	does not go beyond the disclosure in the
the statement that the inf furnished	ormation recorded in computer readable form	n is identical to the written sequence listing has been
2. X Certain claims were fou	ind unsearchable (See Box I).	
3. Unity of invention is lac	sking (see Box II).	LEYDIG, VOIT & MAYER RECEIVED
4. With regard to the title,		DEC 2 <sub>2</sub> 9 2 <u>0</u> 03
X the text is approved as s	ubmitted by the applicant.	+2
the text has been establi	shed by this Authority to read as follows:	PAT/TM Due Date
the text has been establi	ubmitted by the applicant. shed, according to Rule 38.2(b), by this Auth e date of mailing of this international search	ority as it appears in Box III. The applicant may, report, submit comments to this Authority.
6. The figure of the <b>drawings</b> to be put	olished with the abstract is Figure No.	
as suggested by the app		X None of the figures.
because the applicant fa		
because this figure bette	r characterizes the invention.	



International Application No PCT 03/27607

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07F9/117 C07C59/13 A61P35/00

C07C59/68

A61K31/683

A61K31/185

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO7F CO7C A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	WO 00 00206 A (GEORGETOWN UNIVERSITY) 6 January 2000 (2000-01-06) the whole document	1–55
Υ	US 5 227 508 A (ALAN P. KOZIKOWSKI) 13 July 1993 (1993-07-13) the whole document	1–55
Y	HU Y ET AL: "Synthesis and Akt inhibitory properties of a 1D-3,4-dideoxy-phosphatidylinositol ether lipid" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 41, no. 39, 23 September 2000 (2000-09-23), pages 7415-7418, XP004217320 ISSN: 0040-4039 the whole document	1-55

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:      A* document defining the general state of the art which is not considered to be of particular relevance      E* earlier document but published on or after the international filling date      L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O* document referring to an oral disclosure, use, exhibition or other means      P* document published prior to the international filling date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  9 December 2003	Date of mailing of the international search report  23/12/2003
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Beslier, L

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C.(Continua	stion) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication,where appropriate, of the relevant passages		Relevant to claim No.
Y	QIAO L ET AL: "3-DEOXY-D-MYO-INOSITOL 1-PHOSPHATE, 1-PHOSPHONATE AND ETHER LIPID ANALOGUES AS INHIBITORS OF PHOSPHATIDYL- INOSITOL-3-KINASE SIGNALING AND CANCER CELL GROWTH" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 41, no. 18, 27 August 1998 (1998-08-27), pages 3303-3306, XP001037587 ISSN: 0022-2623 the whole document		1-55
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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 38-53 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

Information patent family members

PCT 03/27607

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0000206	A	06-01-2000	AU CA EP WO US	4427199 A 2335995 A1 1119364 A1 0000206 A1 6245754 B1	17-01-2000 06-01-2000 01-08-2001 06-01-2000 12-06-2001
US 5227508	Α	13-07-1993	NONE		